

State of California  
AIR RESOURCES BOARD

Summary of Board Meeting  
June 26, 2003

California Air Resources Board  
Central Valley Auditorium  
1001 I Street  
Sacramento, CA 95814

MEMBERS PRESENT: Hons. Alan C. Lloyd, Ph.D., Chairman  
Joseph C. Calhoun, P.E.  
Dorene D'Adamo  
C. Hugh Friedman  
William F. Friedman, M.D.  
Matthew R. McKinnion  
Barbara Patrick  
Barbara Riordan

AGENDA ITEM #

**03-5-1: Public Meeting to Consider a Health Update**

SUMMARY OF AGENDA ITEM:

ARB staff presented the results of an ARB-funded health study in the Central Valley. This study, conducted by Dr. Stephen Van den Eeden of Kaiser Permanente, found that hospitalizations and emergency room visits increase after periods of high particulate matter episodes in the San Joaquin Valley and Sacramento Valley.

Hospital and emergency room admissions of Kaiser Permanente patients in the San Joaquin Valley, an area of high particulate matter (PM) emissions, were followed between 1996 and 2000. Air quality and weather monitors around the region were used to track pollution levels, air temperatures and wind direction, while investigators monitored the number and type of admissions to Kaiser Permanente facilities. Researchers catalogued hospitalizations and emergency room visits for acute and chronic respiratory ailments and cardiovascular maladies.

Following wintertime episodes of high PM, and to a lesser extent, carbon monoxide and nitrogen oxides, admission rates increased for patients who suffer from acute respiratory ailments such as asthma and bronchitis. Admissions for chronic respiratory ailments, such as emphysema, were similarly elevated, particularly during the winter months.

Chairman Lloyd asked whether further studies were needed on the elderly population in this area, regarding cardiac effects and ozone exposure. Ms. MacGregor responded that a study encompassing more than one health care group and a larger representative sample of the elderly population would be needed. Dr. Friedman concurred stating that often health maintenance groups do not represent the overall population.

ORAL TESTIMONY: None

FORMAL BOARD ACTION: None (Informational Item).

RESPONSIBLE DIVISION: Research Division

STAFF REPORT: No

**03-5-2: Public Meeting to Consider Approval of the Proposed 2003 State Implementation Plan (SIP) for Particulate Matter in the San Joaquin Valley, Including New State Strategies to Reduce Emissions**

**SUMMARY OF AGENDA ITEM:**

On June 26, 2003, the Air Resources Board (ARB or Board) approved the 2003 Plan for particulate matter ten microns or less (PM10) in the San Joaquin Valley (2003 PM10 Plan) as a revision to the California State Implementation Plan (SIP) for submittal to the U.S. Environmental Protection Agency (U.S. EPA). The San Joaquin Valley Unified Air Pollution Control District (District) adopted the 2003 PM10 Plan on June 19, 2003. The emission reduction strategy includes existing and new control measures to reduce directly emitted PM10 and PM10 precursor emissions (nitrogen oxides (NOx) and sulfur oxides) by a combined 245 tons per day (tpd) by the 2010 attainment date. The bulk of these reductions comes from California's existing control program for cleaner vehicles and fuels.

ARB also approved a State commitment to achieve additional emission reductions of ten tpd NOx and ½ tpd of direct PM10 to support the attainment demonstration in the 2003 PM10 Plan. The

Board committed to develop four new statewide ARB measures for vehicles and off-road equipment, including staff's revised proposal to consolidate two defined measures for large spark-ignition equipment like forklifts. The Board also approved the Bureau of Automotive Repair's commitment to improve the Enhanced Smog Check Program as a SIP revision.

The 2003 PM10 Plan includes local commitments to adopt new control measures achieving over 66 tpd of additional direct PM10 reductions, over 16 tpd of NOx reductions, and six tpd of sulfur oxides reductions by 2010. The local strategy affects sources under District jurisdiction, including agriculture operations, industrial facilities, paved and unpaved roads, and residential woodburning. It also includes a mitigation fee for new developments that generate vehicle trips.

The Board heard testimony from almost 20 witnesses. Community and environmental groups urged the Board to reject the 2003 PM10 Plan as inadequate. Specifically, they stated the 2003 PM10 Plan did not provide for: a five percent annual reduction of PM10 or PM10 precursors, best available control measures on all significant sources, and controls on ammonia sources.

The Board also heard testimony from agriculture in support of the 2003 PM10 Plan. Agriculture representatives stated that they had worked closely with staff in developing proposals for effective control measures specific to the agricultural industry.

Representatives of the propane and forklift industries raised concerns about the feasibility of the initial ARB concept for electric forklift purchases, but generally expressed a willingness to work with staff on the revised measure to further reduce forklift emissions through a combination of retrofits plus zero and near-zero emission standards.

The Board directed the Executive Officer to prepare and approve written responses to all significant environmental issues raised on the State measures during the comment period and then to take final action to adopt the State commitments as appropriate. Since the 2003 PM10 Plan relied on these State commitments, the Board directed the Executive Officer to take final action on the 2003 PM10 Plan once the State commitments have been approved.

#### ORAL TESTIMONY:

Ms. Linda Mackay, Association of Irrigated Residents

Mr. Mike Tunnel, American Trucking Association

Ms. Sandra Duval, Lumber Association of California and Nevada

Ms. Mary Reynolds, Western Propane Gas Association  
Mr. Peter Weiner, Paul, Hastings, Janofsky & Walker LLP  
Ms. Patricia Slingerland, IMPCO & ITA  
Ms. Shirley Batchman, California Citrus Mutual  
Mr. Manuel Cunha, Nisei Farmers League  
Mr. Kevin Hall, Sierra Club-Tehipile Chapter  
Mr. Brent Newell, Center for Race, Poverty, and the Environment  
Ms. Diane Bailey, Natural Resources Defense Council  
Ms. Traci Mason, Center for Race, Poverty, and the Environment  
Mr. Tom Frantz, Association of Irrigated Residents  
Mr. Steven Bonaker, Imperial Sugar  
Mr. Joe Miranda, El Comite Bienestar Earlimart  
Ms. Teresa DeAnda, El Comite Bienestar Earlimart  
Ms Josefine Garcia, El Comite Bienestar Earlimart  
Mr. Roger Isom, California Cotton Ginners and California Cotton Growers Association

**FORMAL BOARD ACTION:**

The Board unanimously approved Resolutions 03-14 and 03-15, made the findings recommended by staff, and directed the Executive Officer to initiate steps toward the final adoption of the SIP commitment and the Plan as a revision to the SIP to submit to U.S. EPA.

**RESPONSIBLE DIVISION:** Planning and Technical Support Division

**STAFF REPORT:** Yes

**03-5-3**

**Public Meeting to Consider Update on Central California Ozone Study (CCOS) Air Quality Modeling**

**SUMMARY OF AGENDA ITEM:**

Staff presented an informational item on the Central California Ozone Study (CCOS) and the use of the data and modeling from CCOS to support the San Joaquin Valley's upcoming one-hour ozone plan update.

The CCOS took place during the summer of 2000, and was conducted in parallel with the California Regional Particulate Matter Air Quality Study to make the most of available resources. During the study period of mid-June to mid-October, enhanced routine monitoring took place. In addition, on days when high ozone events were forecast to occur, additional measurements were taken

via aircraft flights and balloon launches to measure ozone levels above the surface. Approximately 27 million hourly averaged data values were collected during the study, and significant efforts have been expended to quality assure the data.

The study is directed by a Policy Committee (PC), which is chaired by Supervisor and ARB Board member Barbara Patrick. A Technical Committee provides recommendations to the PC on both study design and data analysis projects.

CCOS has resulted in many improvements to the emission inventory. Substantive improvements have been made to all facets of the inventory, reflecting the latest science and data.

ARB and District staff are focused on use of the CCOS modeling results in the upcoming San Joaquin Valley ozone State Implementation Plan (SIP), which is expected to go to the District Board in December 2003. Air quality modeling of the highest priority CCOS episode (July 30 – August 2, 2000) is in progress, and a model performance evaluation is underway to validate the model's ability to replicate the CCOS episode. Once the model is validated, it will be used to estimate future year emission targets for ozone precursors in support of the SIP. Staff anticipates that preliminary modeling results will be available in early August, and that final modeling results will be available in early September.

ORAL TESTIMONY:

Dr. Saffet Tanrikulu, Bay Area Air Quality Management District

FORMAL BOARD ACTION:

This was an information item. No Board action was taken.

RESPONSIBLE DIVISION: Planning and Technical Support  
Division

STAFF REPORT: No